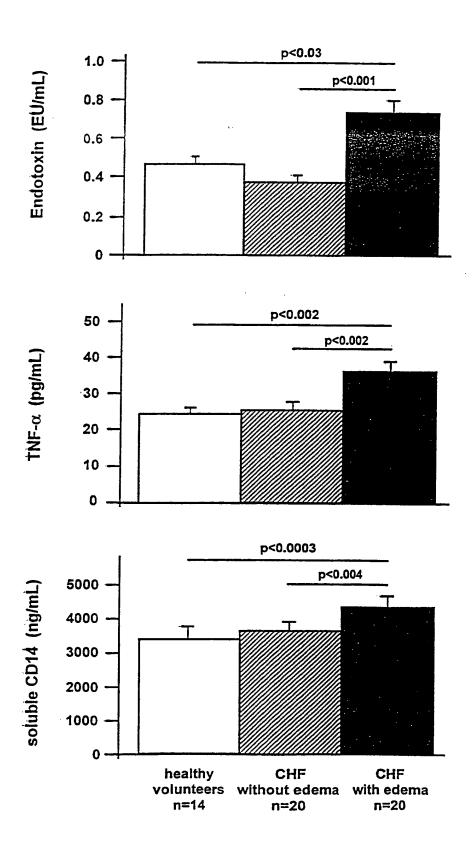
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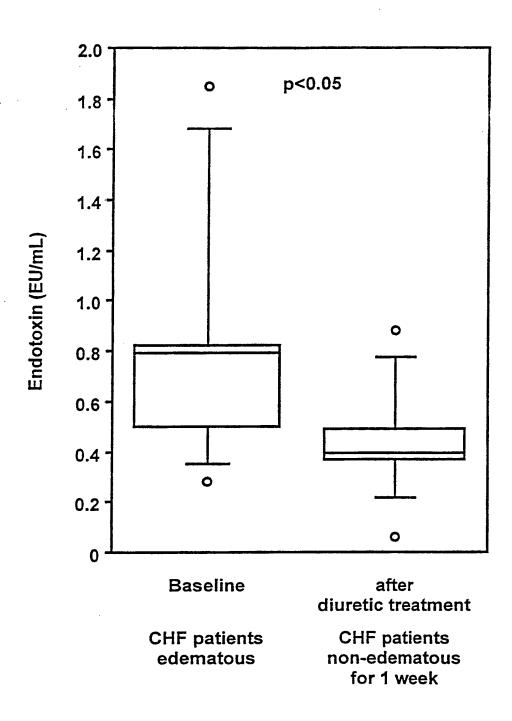
Figure 1:



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Figure 2:



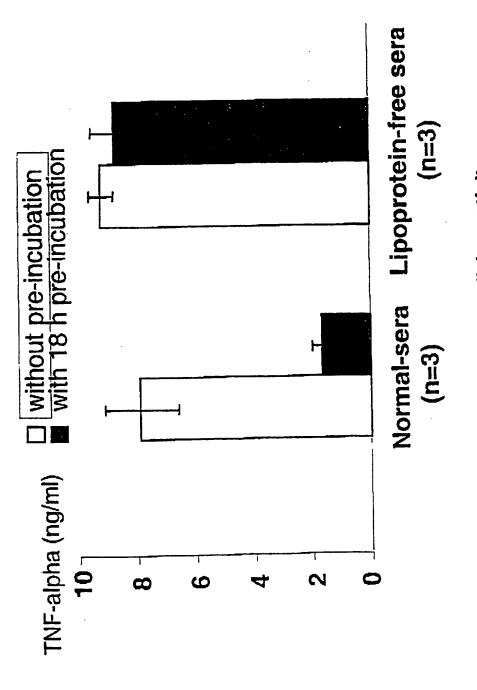
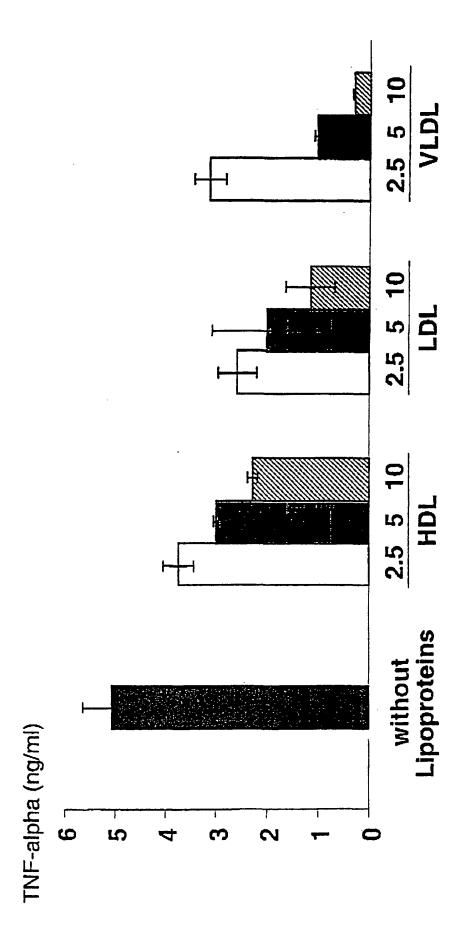


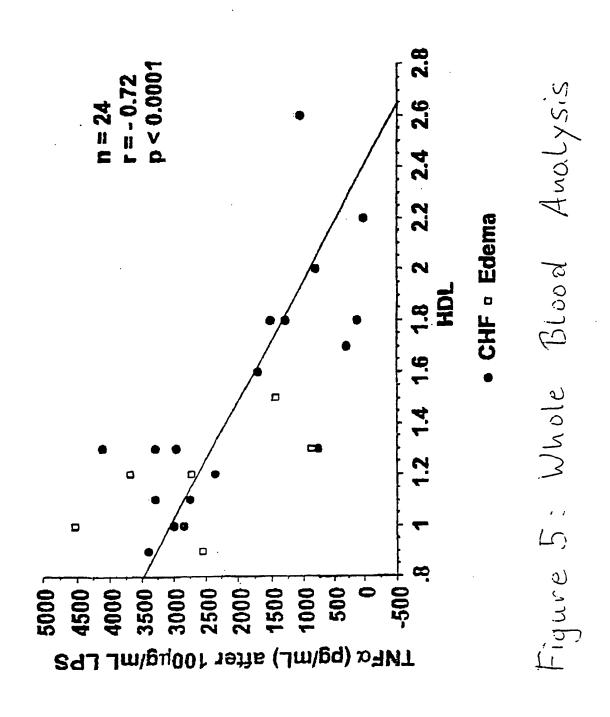
Figure 3: Lipoprotein-free serum lacks LPS-neutralizing activity

Sera were incubated with 3 ng/ml LPS and added to human monocytes directly or after a 18 h pre-incubation time



Lipoproteins were added to Lipoprotein-free Serum (5 %) and incubated for 17 h with 3 ng/ml LPS Figure 4: Lipoproteins including HDL, LDL and VLDL inhibit LPS-induced TNF-release of monocytes. The effects of LDL and VLDL are even stronger than that of HDL. In all xperiments: n=3

before addition to monocytes



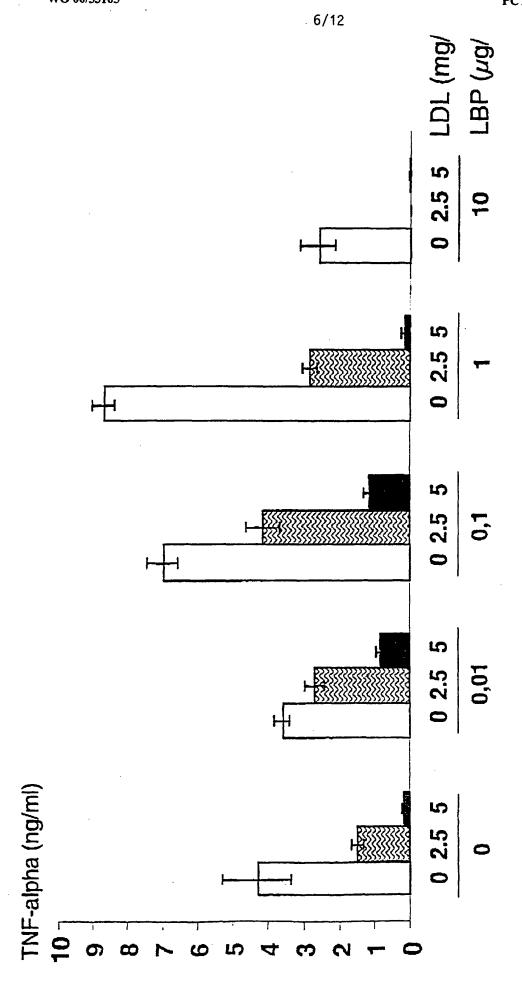


Figure 6: In the presence of elevated LBP-concentrations lipoproteins show emhanced LPS-LBP and LDL were pre-incubated for 17 h before cell stimulation with 3 ng/ml LPS neutralization capacity. In all experiments: n=3.

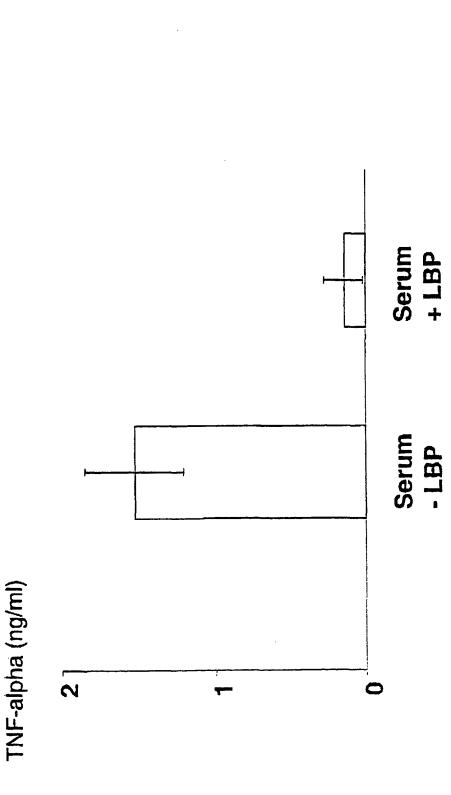


Figure 7: Addition of LBP to lipoprotein containing serum reduces LPS-mediated TNF production (n=3).

Normal serum +/- 10 µg/ml LBP was incubated with 3 ng/ml LPS for 16 h, and then added to monocytes

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Figure 8: LPS - Neutralisation by UDCA in whole blood of 4 healthy subjects

	Con	Control D	Control J	rol J	Control Ch	ol Ch	Control F	rol F
Maconing to hir Immility	TNF	11.6	TΝFα	1L6	TΝFα	1L6	$TNF\alpha$	971
Measurements by infinitite	gd	pg/ml	lm/gd	ml	lm/gd	ml	lm/gd	ml
Control, blood alone (Con) Con + 50 pg/ml LPS	6.7	<5 301	4.6	<5 380	14 486	300	15.4	<5 487
Con + BP1 (1µg/m1)	4	\$	6.9	$\Diamond$	6.9	€	×	$\Diamond$
Blood with UDCA I mg/ml (1% ethanol)	4.8		9	6.5	\$	8.5	<b>^</b>	\$
+LPS+UDCA	<b>^</b>	5.6	4	\$	6.4	9.1	<b>^</b>	ζ.
+ LPS + Ethanol 1% (no UDCA)	126	119	315	286	407	318	430	408
Blood with UDCA 100 w/ml (0.1% ethanol)	10.6	\$	14		42.7	46.3	16	$\Diamond$
+ LPS + UDCA	114	114	41.3	20.4	49.6	306	397	419
+ LPS + Ethanol 0.1% (no UDCA)	265	230	221	263	599	375	695	414
Blood with UDCA 10 µg/ml (0.01%	8 8	7	8 3	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	13.7	0	12 3	\$
ethanol) + LPS	279	248	432	358	617	400	009	499



Figure 9: LPS - Neutralisation by UDCA in whole blood in patient

	P1/-1	-1	P1	P1/0	P1/1	/ 1	P1	P1/2	P1	P1/5
Measurements by Immilite	TNF	9TI	$TNF\alpha$	9TI	$INF\alpha$	9TI	TNFα	IL6	TΝFα	1L6
Measurements by minimum	lm/gd	m	pg/	pg/ml	lm/gd	lml	pg/	pg/ml	bg	pg/ml
Control, blood alone (Con) Con + 50 <i>pg/ml</i> LPS Con + BPI (1μg/ml)	28.7 878 29.7	11.2 573 < 5	70.2 938 15.1	35.2 723 < 5						
Blood with UDCA 1 mg/ml (1% ethanol) + LPS + UDCA + LPS + Ethanol 1% (no UDCA)	> > 4 4	12.8	10. 6.4 648	9.8 6.0 278						
Blood with UDCA 100μg/ml (0.1% ethanol) + LPS + UDCA + LPS + Ethanol 0.1% (no UDCA)	8.5	7.8 153	24.5 692 886	19.7 773 580						
Blood with UDCA 10 µg/ml (0.01% ethanol) + LPS	38.0 952	11.4	93.0 1013	45.7 853						
Plasma levels			9.1	26.7	8.3	28.8	<4	20.5	5.8	28.1



Figure 10: LPS - Neutralisation by UDCA in whole blood in patient 2

	P2/-1	/ -1	P2 / 0	0 /
Messurements by Immulite	$TNF\alpha$	IL6	TΝFα	IL6
Measurements of minume	lm/gd	ml	lm/gd	ml
Control, blood alone (Con)	29.0	10.5	47.5	25.6
Con + 50 <i>pg/ml</i> LPS Con + BPI (1µg/ml)	731	544 \$	807	587 < 5
Blood with UDCA 1 mg/ml (1% ethanol)	4 >	10.1	4 >	7.8
+ LPS + UDCA	9.7	< 5	4 < 4	5.4
+ LPS + Ethanol 1% (no UDCA)	695	419	540	405
Blood with UDCA 100µg/ml (0.1% ethanol)	14.6	7.0	35.2	19.5
+ LPS + UDCA	271	343	459	391
+ LPS + Ethanol 0.1% (no UDCA)	712	546	993	788
Blood with UDCA 10 µg/ml (0.01%	42.4	26.2	54.1	32.0
ethanol) + LPS	712	622	744	532
Plasma levels	4.9	9.9	<b>^</b>	9.2

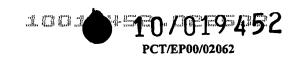


Figure 11: LPS - Neutralisation by UDCA in whole blood in patient 3

	P3 / -1	/-1	P3	P3 / 0
Measurements by Immilite	$TNF\alpha$	IL6	$TNF\alpha$	IL6
Measuremes by minimum	lm/gd	ml	âd	pg/ml
Control, blood alone (Con) Con + 50 <i>pg/ml</i> LPS	43.1	7.9	52.1 490	12.9 346
Con + BPI (1μg/ml)	16.4	< 5	10.0	<>
Blood with UDCA I mg/ml (1% ethanol)	6.5	10.4	4 >	9.1
+ LPS + UDCA	4 >	10.3	<b>4</b> >	10.7
+ LPS + Ethanol 1% (no UDCA)	208	108	288	169
(15 m/le /61 W/le /2000) A DOLL W. F. F. I'd	12.1	0.4	21.7	8 4
+ LPS + UDCA	48.0	63.5	241	382
+ LPS + Ethanol 0.1% (no UDCA)	383	285	448	346
Blood with UDCA 10 µg/ml (0.01% ethanol)	34.7	8.0	39.4	10.7
+LPS	375	310	468	366
Plasma level	13.0	17.1	10.2	15.9



Figure 12: LPS - Neutralisation by UDCA in whole blood in patient 4

	P4/-1	-	P4/0	0 /	P4 / 1	/ 1	P4/2	/2
Management Lear Terramility	$TNF\alpha$	IL6	$TNF\alpha$	9TI	$TNF\alpha$	IL6	$ TNF\alpha $	IL6
ivieasurements by infinuite	lm/gd	ııl	lm/gd	ml	lm/gd	ml	lm/gd	/ml
Control, blood alone (Con) Con + 50 pg/ml LPS Con + BPI (1µg/ml)	34.5 224 18.1	10.4 98.4 < 5	29.5 172.0 33.5	10.2 77.5 7.1	4.7 156 <4	< 5 88.9 < 5	4.0 100 < 4	< 5 46.8 < 5
Blood with UDCA 1 mg/ml (1% ethanol) + LPS + UDCA + LPS + Ethanol 1% (no UDCA)	< 4 < 4 < 132	8.2 6.6 48.0	< 4 < 4 < 8.5	8.2 9.5 68.4	<4 <4 66.9	< 5 5.6 35.6	< 4 < 4 49.5	8.8 6.3 26.5
Blood with UDCA 100µg/ml (0.1% ethanol) + LPS + UDCA + LPS + Ethanol 0.1% (no UDCA)	83.7 242 154	49.6 257 130	44.5 55.8 136.0	60.0 61.0 159	4.2 89.7 141	< 5 36.6 82.7	<4 39.9 120	<5 34.6 81.0
Blood with UDCA 10 µg/ml (0.01% ethanol) + LPS	42.3	13.6	174 278	72.0	10.9	<5 88.7	5.2 95.6	<5 53.4
Plasma levels	8.1	< 5	4>	< > <	4 >	< 5	4.7	< 5

SUBSTITUTE SHEET (RULE 26)